

Claims:

1. Method for the production of a core sand and/or molding sand for casting purposes, according to which a basic granular mineral molding material, such as quartz sand, zircon sand, chromite sand, etc., is mixed with an additive based on an organic and inorganic component, if applicable with the addition of a binder, and according to which the mixture essentially has additive grains and basic molding substance grains and/or aggregate grains of the additive and the basic molding material, characterized in that the additive grains and/or the aggregate grains are coarsely ground or pelletized, whereby more than 50 wt.-% of the grains in question have a grain size of at least approximately 0.05 mm.
2. Method according to claim 1, characterized in that more than 70 wt.-% of the additive grains and/or aggregate grains, particularly more than 90 wt.-%, possess a grain size of approximately 0.05 mm and more, preferably a grain size of 0.09 mm and more.
3. Method according to claim 1 or 2, characterized in that the organic component in the additive constitutes up to 90 wt.-%, and the inorganic component constitutes up to 80 wt.-% of the additive.

4. Method according to one of claims 1 to 3, characterized in that the organic component of the additive, in particular, has maximally approximately 60 wt.-%, preferably maximally 50 wt.-%, of ingredients that are volatile at temperatures up to approximately 250°C to 800°C.

5. Method according to one of claims 1 to 4, characterized in that the oxygen content, preferably of the organic component, is less than 30 wt.-%, particularly less than 20 wt.-%.

6. Method according to one of claims 1 to 5, characterized in that the gas amount emitted by the additive until a temperature in the range of 250°C to 800°C is reached is less than 500 ml/g, particularly less than 350 ml/g, when heated.

7. Method according to one of claims 1 to 6, characterized in that the organic component contains up to 50 to 98 wt.-% carbon, with reference to the weight of the component in question.

8. Method according to one of claims 1 to 7, characterized in that the organic substances coal, hydrocarbon resins, bitumen, etc., as well as mixtures thereof are used.

9. Method according to one of claims 1 to 8, characterized in that the aggregate grains are formed from basic molding material grains impregnated and sheathed with the additive.

10. Method according to one of claims 1 to 9, characterized in that the surface of the additive grains and/or the aggregate grains is sealed by means of coating or impregnation.